

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method of delivering a substance into a cellular organism, the method comprising the steps of:

providing the substance in an ~~ionised~~ ionized aerosol form at a delivery region of the organism; and

applying magnetic energy to the delivery region to effect enhanced delivery of the ionised aerosol substance to the cellular organism.

2. (Currently Amended) The A method ~~as defined in~~ of claim 1 wherein the application of magnetic energy is effected by applying a pulsed magnetic field.

3. (Currently Amended) The A method ~~as defined in~~ of claim 2 wherein the pulsed magnetic field is asymmetric.

4. (Previously Presented) A method of delivering a substance into a cellular organism, the method comprising the steps of:

providing the substance in a liquid or cream form at a delivery region of the organism;

applying ultrasonic energy to the delivery region to enhance delivery of the cream or liquid substance to said organism; and

simultaneously applying magnetic energy and electrical energy to the delivery region to effect delivery of the cream or liquid substance to the cellular organism.

5. (Currently Amended) ~~The A method as defined in~~ of claim 4 wherein the application of ultrasonic energy to said organism to enhance delivery is promoted by opening of ~~the~~ pores of the organism.

6. (Currently Amended) ~~The A method as defined in any one of the preceding of claims~~ claim 4 wherein the ultrasonic and magnetic energies are applied simultaneously.

7. (Currently Amended) ~~The A method of claim 4 as defined in any one of the preceding claims~~ wherein the application of ultrasonic, magnetic and/or electrical energy is effected by applying ultrasonic, magnetic and/or electrical fields, respectively.

8. (Currently Amended) ~~The A method of~~ as defined in claim 7 wherein the magnetic field is a pulsed magnetic field.

9. (Currently Amended) A device for delivering a substance into a cellular organism, the device comprising:

an aerosol delivery head for providing the substance in an ~~ionised~~ ionized aerosol form at a delivery region of the organism;

means for applying magnetic energy to the delivery region to effect enhanced delivery of the ~~ionised~~ ionized aerosol substance to the cellular organism.

10. (Currently Amended) ~~[[A]] The device of~~ as defined in claim 9 wherein the aerosol delivery head provides a sealed compartment about the delivery region.

11. (Currently Amended) ~~[[A]] The device as defined in either of claims~~ claim 9 or 10 ~~also~~ further comprising a nebulizer ~~being~~ operatively coupled to the aerosol delivery head.

12. (Currently Amended) ~~[[A]] The device as defined in of claim~~ Claim 11

wherein the nebulizer comprises includes:

a container being adapted to contain a liquid to be nebulized~~[[.]]~~;

a tubular energy transmitter having one end immersed in the liquid of the container and an opposite end positioned clear of the liquid; and

an energy source being operatively coupled to the container or the tubular energy transmitter for nebulization of the liquid and being arranged for transmission of energy to the liquid or tubular energy transmitter whereby in operation the transmitted energy forces the liquid toward the opposite end of the tubular energy transmitter where it is nebulized in the form of the aerosol.

13. (Currently Amended) ~~[[A]] The device as defined in of claim 12 wherein~~ the at least one energy transmitter is positioned so that said one end is adjacent the bottom of the liquid.

14. (Currently Amended) ~~[[A]] The device as defined in either of claims claim 12 or 13~~ wherein the energy transmitter is arranged to allow formation of high frequency vibrations in its wall(s) upon emission of the energy, the high frequency vibrations effecting aerosol formation at the liquid surface at or adjacent the opposite end of the energy transmitter.

15. (Currently Amended) ~~[[A]] The device as defined in any one of Claims claim 12 to 14~~ wherein the nebulizer ~~also includes~~ further comprises an aerosol tube coupled to the opposite end of the tubular energy transmitter and having a cross-sectional area such that the static pressure of the aerosol within the aerosol tube

induces a pressure drop along the aerosol tubes which alone is sufficient to propel the ~~nebulised~~ nebulized aerosol through the aerosol tube.

16. (Original) A device for delivering a substance into a cellular organism, the device comprising:

means for generating ultrasonic energy being adapted to cooperate with a delivery region of the organism to enhance delivery of the substance in a cream or liquid form to said organisms;

means for simultaneously applying magnetic energy and electrical energy to the delivery region to effect delivery of the cream or liquid substance to the cellular organism, said ultrasonic generating means being operatively coupled to the magnetic and electrical energy means whereby a synergistic effect is provided by the combination of said means.

17. (Currently Amended) ~~[[A]]~~ The device ~~as defined in~~ of claim 16 wherein the means for applying magnetic energy is in the form of a pulsed magnetic generator.

18. (New) A nebulizer comprising:

a container adapted to contain a liquid to be nebulized;

a tubular energy transmitter having one end proximate the container; and

an energy source being operatively coupled to the container for

nebulization of the liquid and being arranged for transmission of energy to the

liquid which is forced toward an opposite end of the tubular energy transmitter.

19. (New) The nebulizer of claim 18 wherein the energy source is positioned below the container.

20. (New) The nebulizer of claim 18 wherein said one end of the tubular energy transmitter is immersed in the liquid.
21. (New) The nebulizer of claim 20 wherein the tubular energy transmitter is positioned so that said one end is proximate the bottom of the container.
22. (New) The nebulizer of claim 18 wherein the tubular energy transmitter vibrates at a frequency to form an aerosol proximate the opposite end of the energy transmitter.
23. (New) The nebulizer of claim 18 wherein the nebulizer further comprises an aerosol tube positioned about at least a portion of the tubular energy transmitter and having a cross-sectional area such that the static pressure of the aerosol within the aerosol tube induces a pressure drop along the aerosol tube which propels the aerosol through the aerosol tube.
24. (New) The nebulizer of claim 23 wherein an internal diameter of the aerosol tube is greater than an internal diameter of the tubular energy transmitter at its opposite end.
25. (New) The nebulizer of claim 23 wherein the aerosol tube is positioned so that it is substantially coaxial with the tubular energy transmitter.
26. (New) The nebulizer of claim 25 wherein the aerosol tube is connected to the opposite end of the tubular energy transmitter.
27. (New) The nebulizer of claim 26 wherein the energy source vibrates the liquid proximate the opposite end of the tubular energy transmitter.
28. (New) The nebulizer of claim 23 wherein the aerosol tube opens at its upper end into an expansion chamber which in turn communicates with an outlet duct.

29. (New) The nebulizer of claim 28 wherein the expansion chamber is adapted to recirculate larger drops of the liquid back into the container.
30. (New) The nebulizer of claim 18 wherein the energy source comprises an ultrasonic transducer for transmission of ultrasonic radiation energy.
31. (New) The nebulizer of claim 30 wherein the ultrasonic transducer has a concave shaped surface.
32. (New) The nebulizer of claim 30 wherein the ultrasonic transducer is arranged to transmit ultrasonic energy to a focal region of the liquid.
33. (New) The nebulizer of claim 31 wherein said the one end of the tubular energy transmitter is proximate the focal region.
34. (New) The nebulizer of claim 32 wherein an internal diameter of the tubular energy transmitter is substantially equal to a diameter of the focal region.
35. (New) The nebulizer of claim 30 wherein the tubular energy transmitter has a higher acoustic impedance than the liquid.
36. (New) The nebulizer of claim 35 wherein the acoustic impedance of the tubular energy transmitter is high enough to effect minimal acoustic energy loss during transmittal of the energy along the tubular energy transmitter.
37. (New) The method of claim 4 wherein the application of ultrasonic energy is effected by applying ultrasonic fields.
38. (New) The method of claim 4 wherein the application of electrical energy is effected by applying ultrasonic fields.